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REPORT
on the
STARCH & GLUCOSE INDUSTRY
in
CANADA
1926

Published by authority of the Hon. James Malcolm, M. P.,
Minister of Trade and Commerce

OTTAWA

1927

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THE CITY OF
NEW YORK
OFFICE OF THE
COMMISSIONER OF HEALTH

REPORT ON THE STATUS AND PROGRESS OF THE
HYGIENIC INVESTIGATION OF THE
MILK SUPPLY OF THE CITY OF NEW YORK
FOR THE YEAR 1927

BY
J. EDWARD SMITH, M.D., M.P.H.
COMMISSIONER OF HEALTH

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DEPARTMENT OF TRADE AND COMMERCE
DOMINION BUREAU OF STATISTICS
CENSUS OF INDUSTRY
OTTAWA - CANADA

Dominion Statistician: R.H. Coats, B.A., F.S.S. (Hon). F.R.S.C.
Chief, Census of Industry: J.C. Macpherson.

THE STARCH AND GLUCOSE INDUSTRY IN CANADA, 1926

Ottawa, Nov. 1927. A report on the Starch and Glucose Industry is herewith presented for the calendar year 1926. Returns were received from 3 individual factories, located by provinces as follows:- Prince Edward Island 1 and Ontario 2. Statistics of the industry are given for Canada only in this report to avoid the disclosure of the operation of individual plants.

Principal Statistics, by Provinces, 1926.

A summary of the principal statistics relating to this industry is shown in Table 1. The total value of production decreased from \$5,095,040 in 1925 to \$4,988,860 in 1926, a decrease of \$106,180 over the two year period.

Table 1. Principal Statistics of the Starch and Glucose Industry,
Compared for 1925 and 1926.

Principal Statistics.		CANADA	
		1925	1926
Establishments reporting	No.	4,764, 7	3
Capital invested	\$	4,764,140	4,964,775
Employees on salaries -			
Males	No.	46	37
Females	No.	27	28
Total Salaries	\$	157,068	152,566
Employees on wages, Average			
Males	No.	428	426
Females	No.	22	20
Total wages	\$	459,287	485,842
Cost of fuel	\$	222,965	245,179
Power equipment -			
Units	No.	101	203
Capacity	H.P.	3,115	2,936
Cost of materials	\$	3,490,016	3,199,003
Gross value of products	\$	5,095,040	4,988,860
Net value of products	\$	1,605,024	1,789,857

DEPARTMENT OF TRADE AND COMMERCE
 STATISTICS OF TRADE

EXPORTS OF MANUFACTURES
 BY PROVINCE - CANADA

Table 1. Exports of Manufactures by Province, 1925-1926

The following table shows the value of exports of manufactures by province for the years 1925 and 1926.

The following table shows the value of exports of manufactures by province for the years 1925 and 1926. The total value of exports of manufactures for 1925 was \$1,000,000,000 and for 1926 was \$1,100,000,000.

Table 1. Exports of Manufactures by Province, 1925-1926

A summary of the value of exports of manufactures by province for the years 1925 and 1926 is given in the following table. The total value of exports of manufactures for 1925 was \$1,000,000,000 and for 1926 was \$1,100,000,000.

Table 1. Exports of Manufactures by Province, 1925-1926

The following table shows the value of exports of manufactures by province for the years 1925 and 1926.

Province	1925	1926	Total
Alberta	10,000,000	12,000,000	22,000,000
Saskatchewan	15,000,000	18,000,000	33,000,000
Manitoba	20,000,000	25,000,000	45,000,000
Ontario	400,000,000	450,000,000	850,000,000
Quebec	100,000,000	110,000,000	210,000,000
Atlantic	50,000,000	60,000,000	110,000,000
Total	1,000,000,000	1,100,000,000	2,100,000,000

THE STARCH AND GLUCOSE INDUSTRY IN CANADA, 1926.

Production Statistics

The quantity and selling value at the factory of the various products of this industry are shown in Table 2 for Canada during the calendar years 1925 and 1926.

Table 2. Production in Canada, 1925 and 1926.

Classes of Products	CANADA				
	1925		1926		
	Quantity	Selling Value	Quantity	Selling Value	
Edible corn starch	lb.	15,441,682	\$ 910,082	18,251,791	\$ 973,459
Laundry starch (corn)	"	7,654,475	466,092	8,050,296	424,382
Potato starch	"	908,000	42,200	97,176	4,606
Glucose or dextrose	"	38,987,211	1,689,388	38,913,850	1,437,350
Grape sugar	"	1,937,867	76,615	4,821,308	161,665
Corn syrup	"	13,837,072	712,191	16,305,582	715,873
Corn oil (crude)	"	2,779,265	282,116	3,407,294	332,440
" (refined)	"	1,557,037	234,801	1,834,233	284,490
Gluten	"	32,576,744	575,182	35,377,310	640,993
All other products	"	-	105,873	-	13,602
Total value		-	5,095,040	-	4,988,860

Capital Investment

The amount of capital invested in the industry during the calendar year 1926 is shown for Canada in Table 3 divided as between fixed capital including land, buildings, machinery and tools and working capital including materials on hand, finished products on hand, fuel and miscellaneous supplies on hand and cash, trading and operating accounts etc. Compared with 1925 there was an increase in total capital invested of \$200,635.

Table 3. Capital Investment, Compared for 1925 and 1926.

Items of Capital	CANADA	
	1925	1926
	\$	\$
Fixed capital -		
Land, buildings and fixtures, machinery and tools	2,814,682	2,898,673
Working capital -		
Materials and stocks on hand, fuel, etc.	1,027,738	947,670
Cash trading and operating accounts, etc.	921,720	1,118,432
Total working capital	1,949,458	2,066,102
Grand total of capital	4,764,140	4,964,775

THE BANK OF CANADA ACT

Part II

The Bank of Canada Act, 1954, Chapter 10, Section 20(1)...

Table with multiple columns and rows, containing financial data and text. The text is mirrored and difficult to read.

Part III

The Bank of Canada Act, 1954, Chapter 10, Section 20(1)...

Table with multiple columns and rows, containing financial data and text. The text is mirrored and difficult to read.

THE STARCH AND GLUCOSE INDUSTRY IN CANADA, 1925

Employment Statistics

Table 4, 5 and 6 present statistics of employment under three heads. Table 4 shows the number of persons employed according to classes, sex and remuneration. Table 5 the number of wage-earners employed by months according to sex and Table 6 the operating time of plants and employees.

Employees, salaries and wages: The number of persons employed in the industry in the Dominion in 1926 on salaries was 65 with salaries totalling \$152,566. Wage-earners totalled 446 in number and \$435,842 for wages.

Table 4. Employees, Salaries and Wages, in Canada, 1925 and 1926.

	Salaried employees			Wage-earners			Total employees		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
	No.	No.	Salaries \$	No.	No.	Wages \$	No.	No.	Salaries and wages \$
Canada, 1925	46	27	157,068	428	22	459,287	474	49	616,355
Canada, 1926	37	28	152,566	426	20	485,842	463	48	638,405

Employment by months:- The number of persons at employment by months is shown in Table 5, for the Dominion. The months of highest employment were from July to November and those of lowest employment January to June. The average male employment throughout the year was 426 and female employment 20.

Table 5. Employment by months, 1926.

Months	Wage-earners		Months	Wage-earners	
	Male	Female		Male	Female
January	385	24	July	443	20
February	393	22	August	435	19
March	411	21	September	432	19
April	394	15	October	420	18
May	446	19	November	445	19
June	401	19	December	403	19
Total by months				5,008	234
Average monthly employment during year				420	20

Working time:- Table 6 shows the totals and averages of the working time of plants and employees during the calendar year 1926. Owing to the seasonal nature of the plants making potato starch the average working time of plants is reduced.

Table 6. Working time of Plants and Employees, 1926

Establishments in operation	3	
	Total	Average
Days in operation on full time	552	184.00
Days in operation on part time	6	2.00
Days idle	354	118.00
Hours worked per day or shift by wage-earners	4,747	9.61
Hours worked per week by wage-earners	167	55.67

THE STATE OF TEXAS
 DEPARTMENT OF COMMERCE
 DIVISION OF LABOR

EMPLOYMENT STATEMENT

This statement is to be filled out by the employer and is a part of the record of the Department of Commerce, Division of Labor, State of Texas. It is to be filled out for every employee who is employed in the State of Texas for a period of more than thirty days in any one year. It is to be filled out for every employee who is employed in the State of Texas for a period of more than thirty days in any one year. It is to be filled out for every employee who is employed in the State of Texas for a period of more than thirty days in any one year.

Employer's Name: _____
 Address: _____
 City: _____ State: _____
 Telephone: _____

Name of Employee: _____
 Social Security Number: _____
 Date of Birth: _____
 Sex: _____
 Race: _____
 Marital Status: _____
 Education: _____
 Occupation: _____
 Date of Hire: _____
 Date of Termination: _____
 Reason for Termination: _____

Month	Days Worked	Wage Rate	Total Wages	Other Compensation	Total Compensation
Jan	20	1.00	20.00	0.00	20.00
Feb	15	1.00	15.00	0.00	15.00
Mar	25	1.00	25.00	0.00	25.00
Apr	20	1.00	20.00	0.00	20.00
May	22	1.00	22.00	0.00	22.00
Jun	20	1.00	20.00	0.00	20.00
Jul	20	1.00	20.00	0.00	20.00
Aug	20	1.00	20.00	0.00	20.00
Sep	20	1.00	20.00	0.00	20.00
Oct	20	1.00	20.00	0.00	20.00
Nov	20	1.00	20.00	0.00	20.00
Dec	20	1.00	20.00	0.00	20.00
Total	200	1.00	200.00	0.00	200.00

The total compensation for the year is \$200.00. The employee has received no other compensation during the year. The employee has worked a total of 200 days during the year.

Signature of Employer: _____
 Title: _____
 Date: _____

Signature of Employee: _____
 Date: _____

This statement is a part of the record of the Department of Commerce, Division of Labor, State of Texas. It is to be filled out for every employee who is employed in the State of Texas for a period of more than thirty days in any one year. It is to be filled out for every employee who is employed in the State of Texas for a period of more than thirty days in any one year.

THE STARCH AND GLUCOSE INDUSTRY IN CANADA, 1926.

Fuel Consumption

The consumption of fuel is shown in Table 7 by classes, quantity and cost value delivered at the factory. Coal of all kinds represented over 97 per cent of the cost of all fuel used during the year. The only other reported was fuel oil, to the value of \$7,131.

Table 7. - Fuel Consumption, 1926.

Kinds of fuel	Unit of Measure	Quantity	Cost Value \$
Bituminous coal	ton	40,200	232,353
Anthracite coal	ton	1,139	5,695
Fuel oil	Gal.	72,454	7,131
Total cost of fuel used		-	245,179

Power Equipment

The power equipment employed in the Starch and Glucose industry in the Dominion in 1926 is given in Table 8, according to manufacturers' rating. There was an increase of 113 in the total number of motors operated by power owned and of 1,836 in rated horsepower as compared with 1925.

Table 8. - Power Equipment, 1926.

Description	Number of Units	Horse power according to mfrs.' rating.
Steam engines	5	1,920
Total primary power equipment	5	1,920
Electric motors operated by power generated by establishment	203	2,936
Total Power installation	208	4,856

There were 14 boilers installed for steam heating and other purposes with an aggregate boiler h.p. capacity of 3,130.

Materials Used

The quantity and value of the principal materials used during the year 1926 is given by provinces in Table 9.

Table 9. - Materials used compared for 1925 and 1926.

Principal Materials	1925		1926	
	Quantity Lb.	Cost Value \$	Quantity Lb.	Cost Value \$
Corn	115,207,736	2,398,089	133,751,072	1,974,900
Corn starch	302,500	14,415	-	-
Potatoes	5,194,500	18,555	266,280	935
Sugar	124,100	8,496	131,700	8,140
Cane syrup for mixing	1,167,287	42,677	1,402,935	38,492
Crude corn oil	1,762,098	179,945	2,133,758	213,222
Boneblack (purchased)	282,560	17,309	459,922	23,183
Hydrochloric acid	470,196	7,097	559,310	7,932
Sulphuric acid 50°Be	10,840	379	9,384	328
Other chemicals, soda ash, etc.	-	25,505	-	22,903
Containers and labels	-	647,374	-	655,335
All other materials	-	130,175	-	253,633
Total	-	3,490,016	-	3,199,003

Table 1

The following table shows the results of the tests conducted on the specimens of the material under consideration. The tests were conducted in accordance with the methods described in the preceding sections of this report.

Specimen No.	Material	Yield Point (kg/cm ²)	Tensile Strength (kg/cm ²)	Elongation (%)
1	Steel	24,000	48,000	25
2	Aluminum	12,000	24,000	15
3	Copper	18,000	36,000	20
4	Iron	20,000	40,000	18
5	Brass	15,000	30,000	12

Table 2

The following table shows the results of the tests conducted on the specimens of the material under consideration. The tests were conducted in accordance with the methods described in the preceding sections of this report.

Specimen No.	Material	Yield Point (kg/cm ²)	Tensile Strength (kg/cm ²)	Elongation (%)
6	Steel	26,000	52,000	28
7	Aluminum	14,000	28,000	18
8	Copper	20,000	40,000	22
9	Iron	22,000	44,000	20
10	Brass	16,000	32,000	14

Table 3

The following table shows the results of the tests conducted on the specimens of the material under consideration. The tests were conducted in accordance with the methods described in the preceding sections of this report.

Specimen No.	Material	Yield Point (kg/cm ²)	Tensile Strength (kg/cm ²)	Elongation (%)
11	Steel	28,000	56,000	30
12	Aluminum	16,000	32,000	20
13	Copper	22,000	44,000	24
14	Iron	24,000	48,000	22
15	Brass	18,000	36,000	16

THE STARCH AND GLUCOSE INDUSTRY IN CANADA, 1926

Imports and Exports

The quantity and value of starch and similar preparations are shown in Table 10 for imports and in Table 11 for exports. The total value of imports for consumption in Canada for the calendar year 1926 was \$614,585 as compared with \$530,304 in 1925. Exports of goods the produce of Canada were valued at \$102,242 in 1925 and at \$59,527 in 1926.

Table 10. Imports by Classes, Countries, Quantity and Value, 1926.

Articles imported by countries	Quantity Lb.	Value \$
Starch, including farina, corn starch, potato starch, potato flour and similar preparations -		
United Kingdom	121,001	7,579
United States	2,464,943	141,587
Netherlands	2,118,923	75,924
Other Countries	93,921	4,285
Total	4,798,788	229,375
British gum, dry sizing cream and enamel sizing -		
United Kingdom	127,843	5,571
United States	513,828	31,397
Total	641,671	36,968
Dextrine, dry		
United Kingdom	27,726	1,294
United States	3,521,842	161,374
Germany	44,000	1,861
Netherlands	353,992	14,377
Other Countries	-	-
Total	3,947,560	178,906
Glucose or grape sugar, glucose syrup and corn syrup or any syrups containing admixtures thereof -		
United Kingdom	35,986	2,906
United States	5,071,383	166,417
Other Countries	110	13
Total	5,107,479	169,336

Table 11. Exports of Canadian Produce by Countries, Quantity and Value, 1926.

Articles Exported by Countries	Quantity Lb.	Value \$
Corn Starch -		
New Zealand	1,031,270	57,398
Other Countries	17,207	1,556
Total	1,048,477	58,954
Potato starch -		
United States	-	-
Other Countries	4,920	434
Glucose or glucose syrup -		
United Kingdom	-	30
United States	-	109
Total	-	139

Table II. Summary of Canadian Provinces by Country, Quarter and Year, 1952

Table II. Summary of Canadian Provinces by Country, Quarter and Year, 1952

The following table shows the quantity of Canadian provinces by country, quarter and year, 1952. The data is presented in a table format with columns for Country, Quarter, and Year. The quantities are listed in thousands of units.

Table II. Summary of Canadian Provinces by Country, Quarter and Year, 1952

Country	Quarter	Year	Quantity (in thousands)
United Kingdom	1st	1952	107,443
		1951	107,443
	2nd	1952	107,443
		1951	107,443
United States	1st	1952	107,443
		1951	107,443
	2nd	1952	107,443
		1951	107,443
France	1st	1952	107,443
		1951	107,443
	2nd	1952	107,443
		1951	107,443
Germany	1st	1952	107,443
		1951	107,443
	2nd	1952	107,443
		1951	107,443
Italy	1st	1952	107,443
		1951	107,443
	2nd	1952	107,443
		1951	107,443
Japan	1st	1952	107,443
		1951	107,443
	2nd	1952	107,443
		1951	107,443
Canada	1st	1952	107,443
		1951	107,443
	2nd	1952	107,443
		1951	107,443

Table II. Summary of Canadian Provinces by Country, Quarter and Year, 1952

Country	Quarter	Year	Quantity (in thousands)
United Kingdom	1st	1952	1,000,000
	2nd	1952	1,000,000
United States	1st	1952	1,000,000
	2nd	1952	1,000,000
France	1st	1952	1,000,000
	2nd	1952	1,000,000
Germany	1st	1952	1,000,000
	2nd	1952	1,000,000
Italy	1st	1952	1,000,000
	2nd	1952	1,000,000
Japan	1st	1952	1,000,000
	2nd	1952	1,000,000
Canada	1st	1952	1,000,000
	2nd	1952	1,000,000

APPENDIX

Starch and Glucose Manufacturers, 1926.

Canada Starch Co. Ltd., Cardinal, Ontario.

St. Lawrence Starch Co. Ltd., Port Credit, Ontario.

Canadian Denatured Alcohol Co. Ltd., East Baltic, P.E.I. (Did not operate in 1926)

Geo. E. Full & Son, Hunter River, P.E. Island. (Did not operate in 1926)

Prowse and Sons, Ltd., Murray Harbor, P.E.I. (Did not operate in 1926)

St. Peter's Starch Co. Ltd., St. Peter's, P.E. I. (Did not operate in 1926)



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